FIG. 1

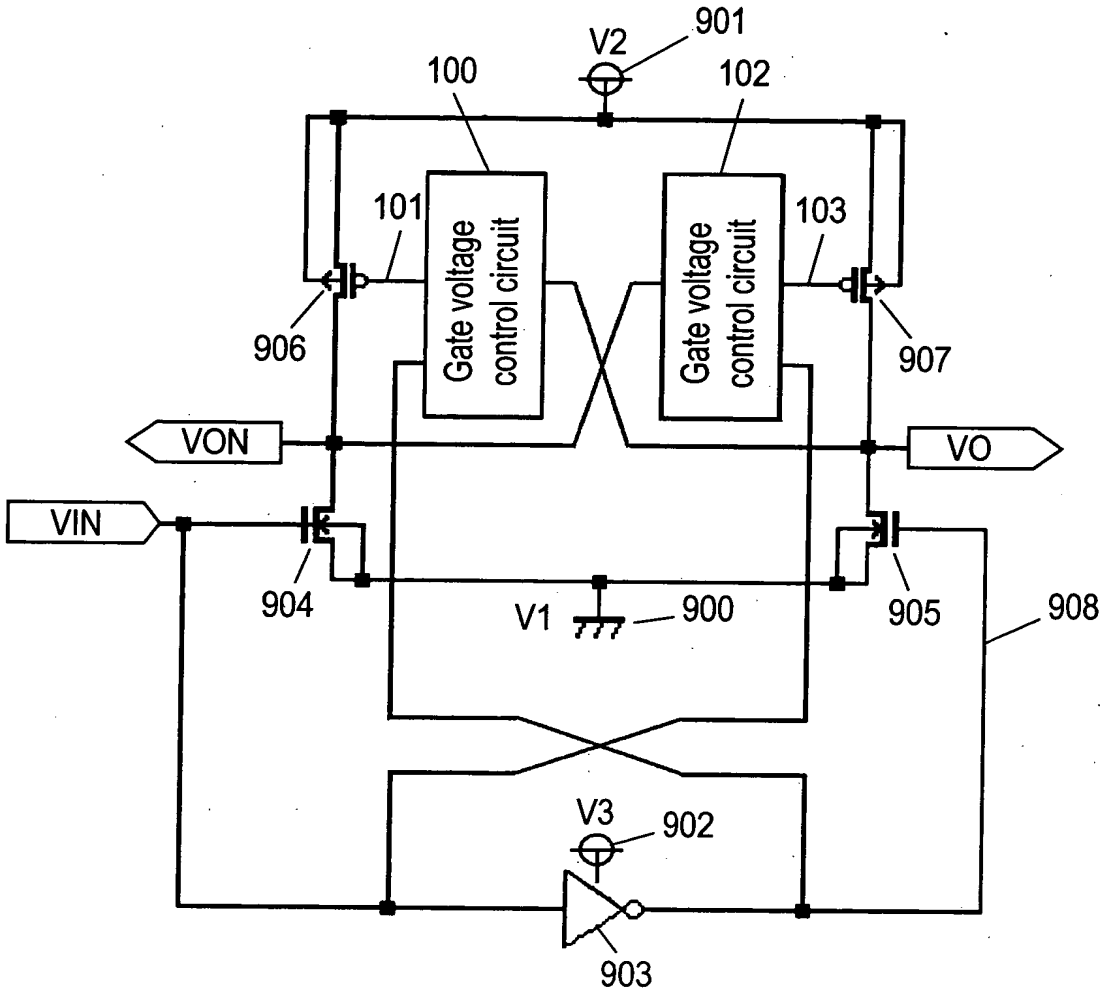
V2
901
100
102
101
Gate voltage control circuit
Gate voltage control circuit
103
906
907
VON
VO
VIN
904
905
908
V1
900
V3
902
903

FIG. 2A

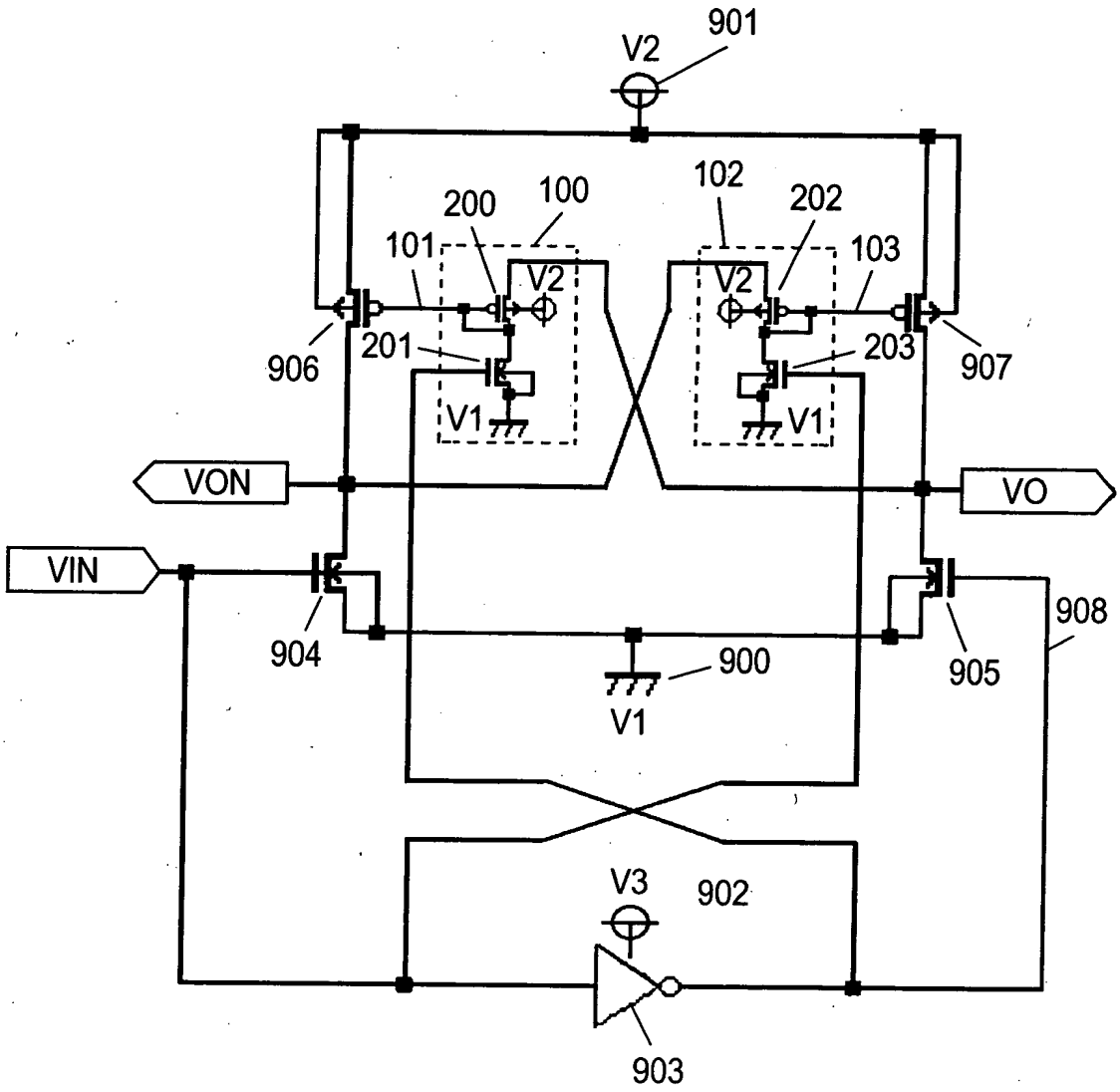
901
V2
200
100
102
202
101
V2
V2
103
906
201
203
907
V1
V1
VON
VO
VIN
904
905
908
900
V1
V3
902
903

FIG. 2B

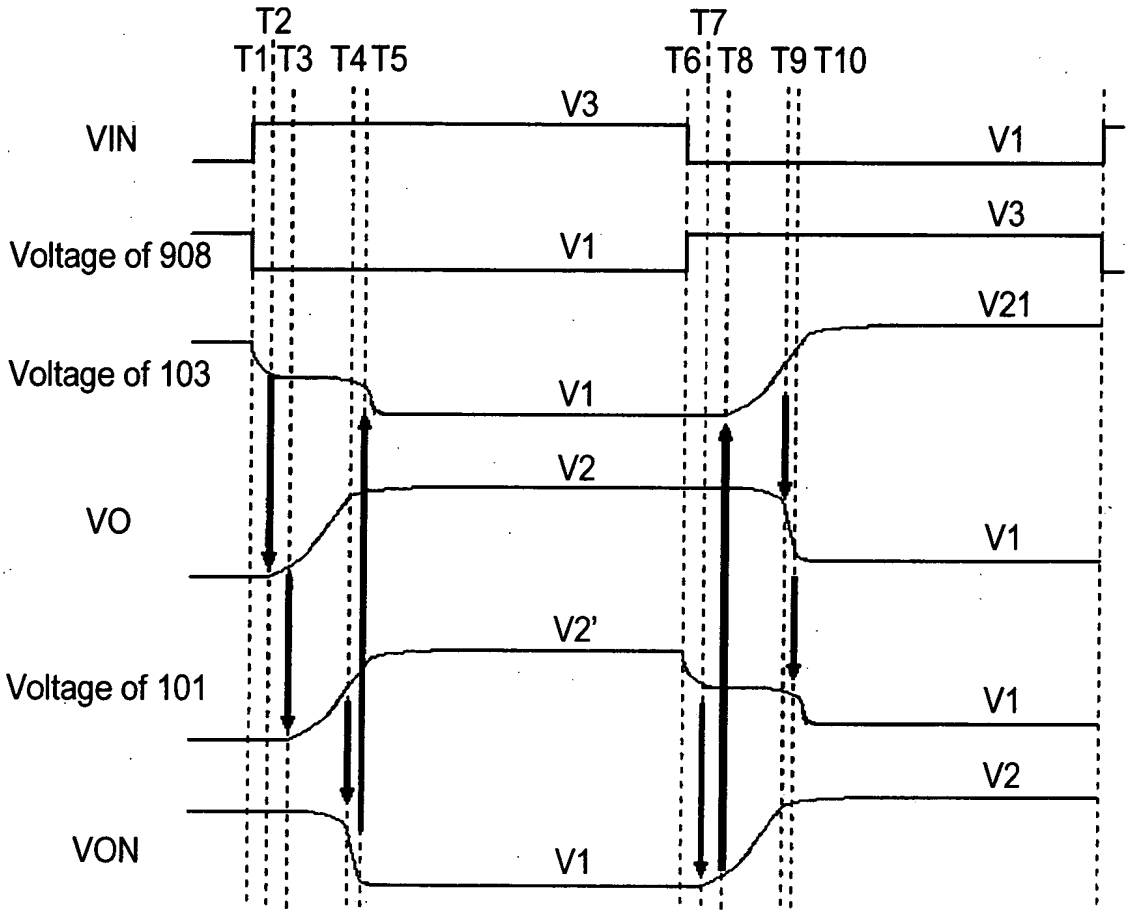
T2
T1 T3 T4 T5
T7
T6 T8 T9 T10
VIN
V3
V1
Voltage of 908
V1
V3
Voltage of 103
V1
V21
VO
V2
V1
Voltage of 101
V2'
V1
VON
V1
V2

FIG. 3A

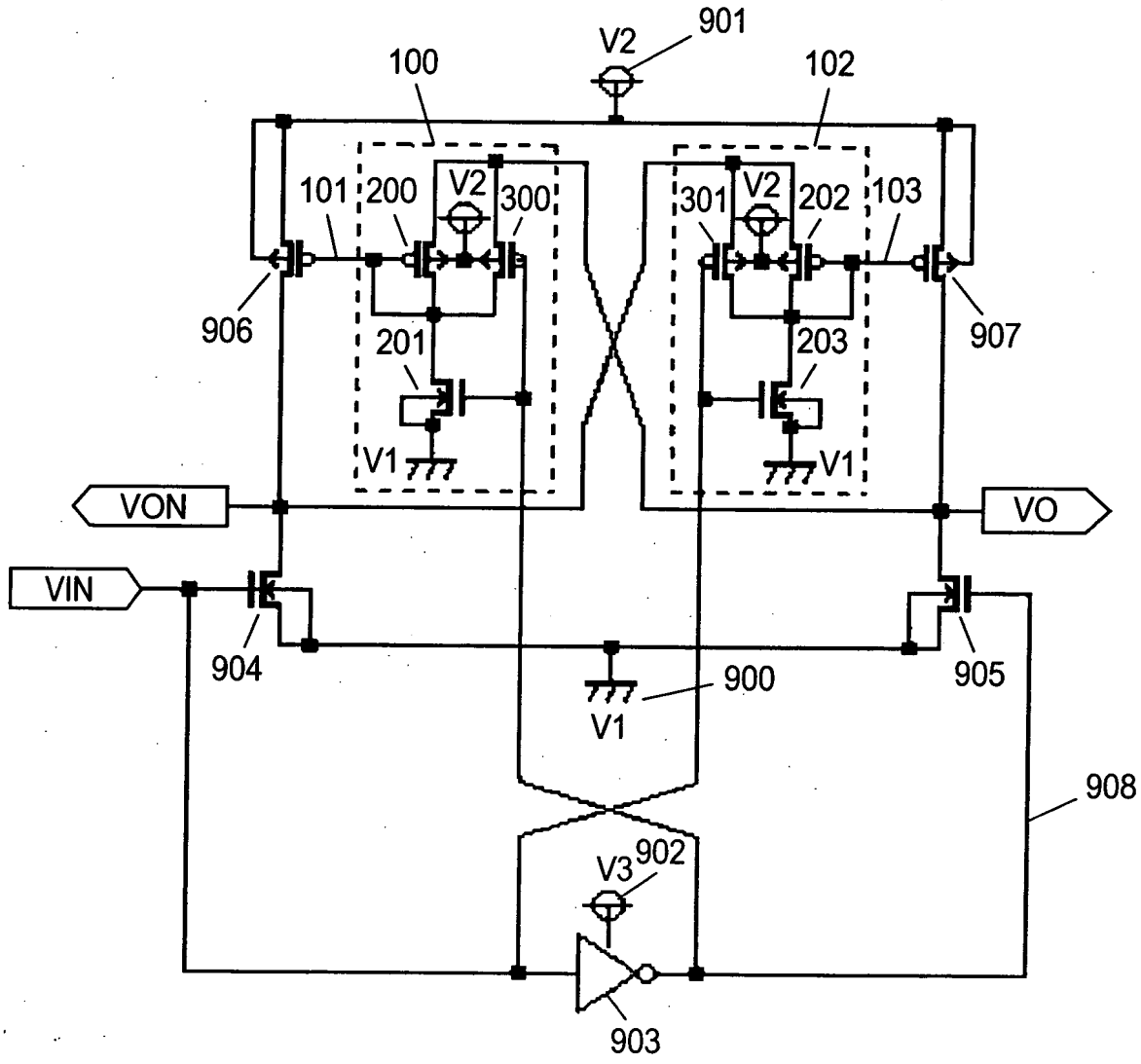
901
V2
100
102
101
200
V2
300
301
V2
202
103
906
907
201
203
V1
V1
VON
VO
VIN
904
905
900
V1
908
902
V3
903

FIG. 3B

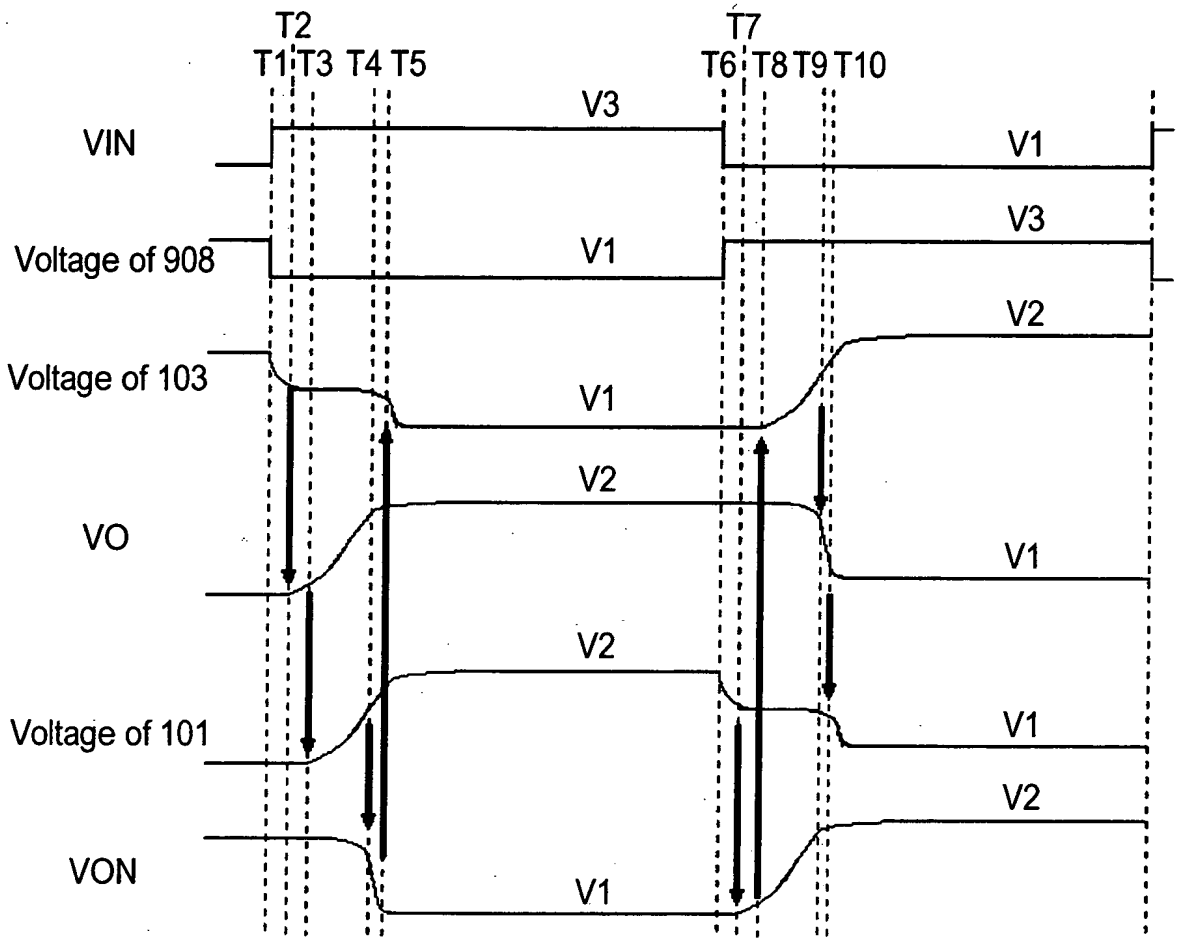
T2
T1 T3 T4 T5
T7
T6 T8 T9 T10
VIN
V3
V1
Voltage of 908
V1
V3
Voltage of 103
V1
V2
VO
V2
V1
Voltage of 101
V2
V1
VON
V2
V1

FIG. 4A

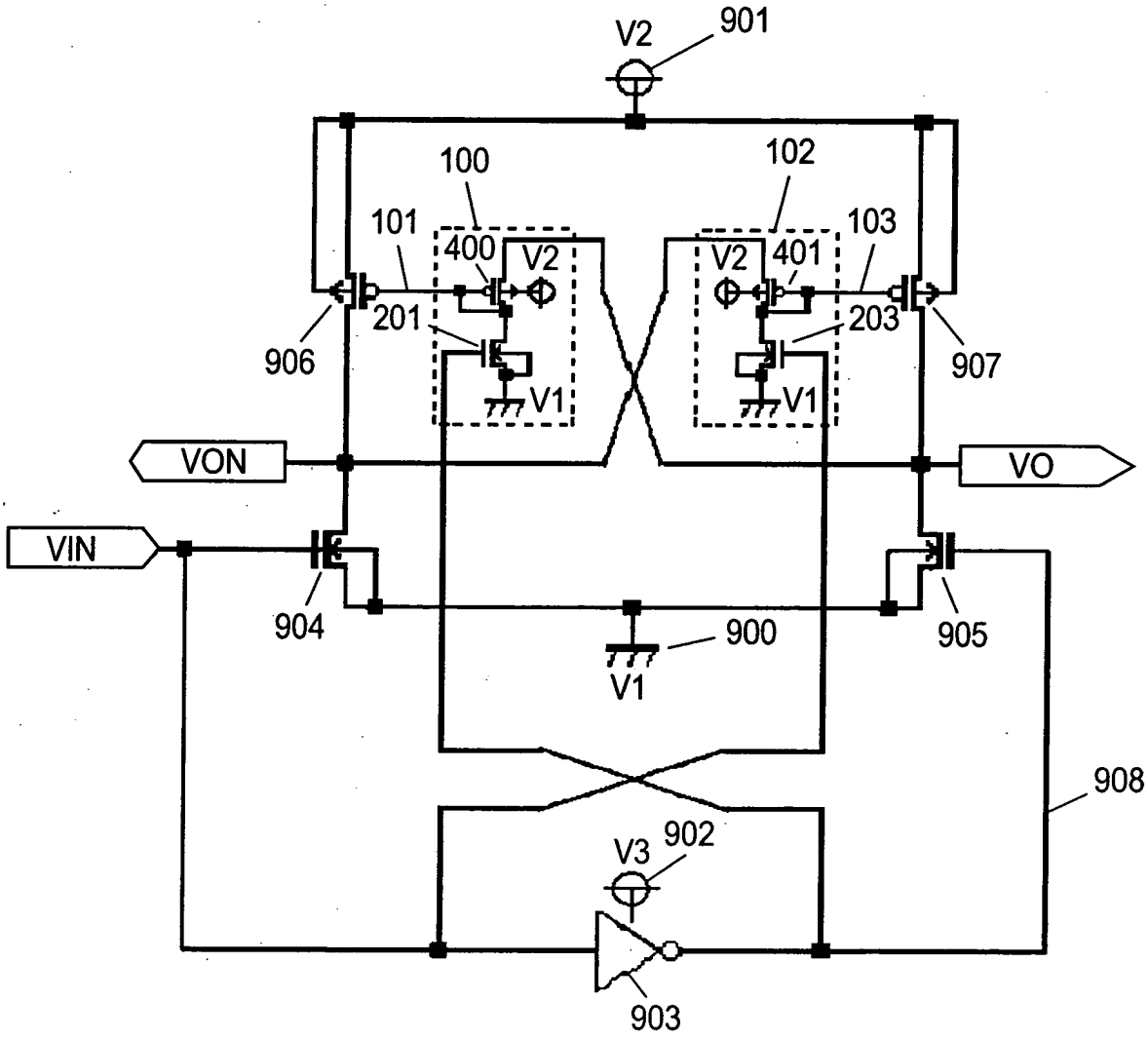
V2
901
100
102
101
400
V2
V2
401
103
201
203
906
907
V1
V1
VON
VO
VIN
904
905
900
V1
908
V3
902
903

FIG. 4B

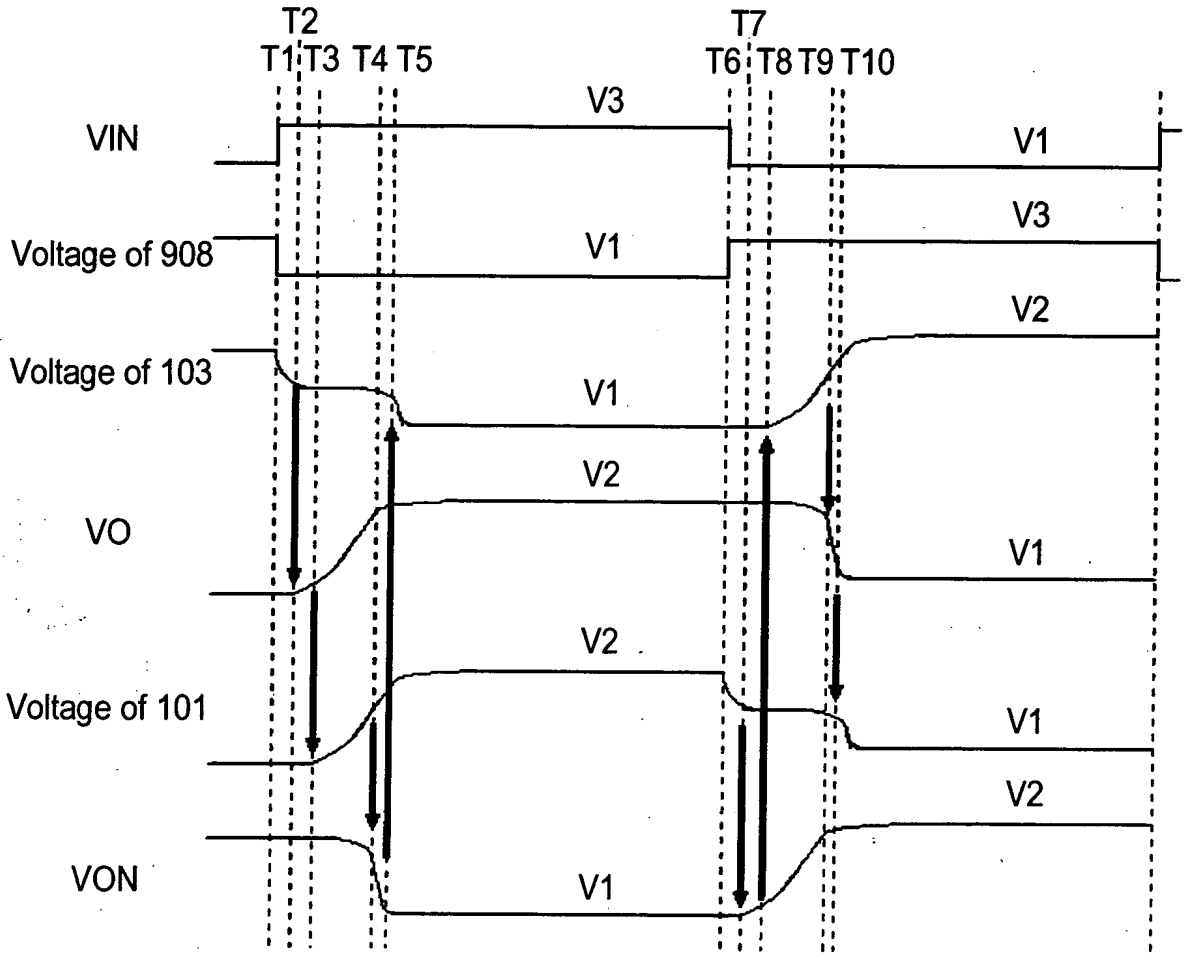
T2
T1 T3 T4 T5
T7
T6 T8 T9 T10
VIN
V3
V1
Voltage of 908
V1
V3
Voltage of 103
V1
V2
VO
V2
V1
Voltage of 101
V2
V1
VON
V1
V2

FIG. 5

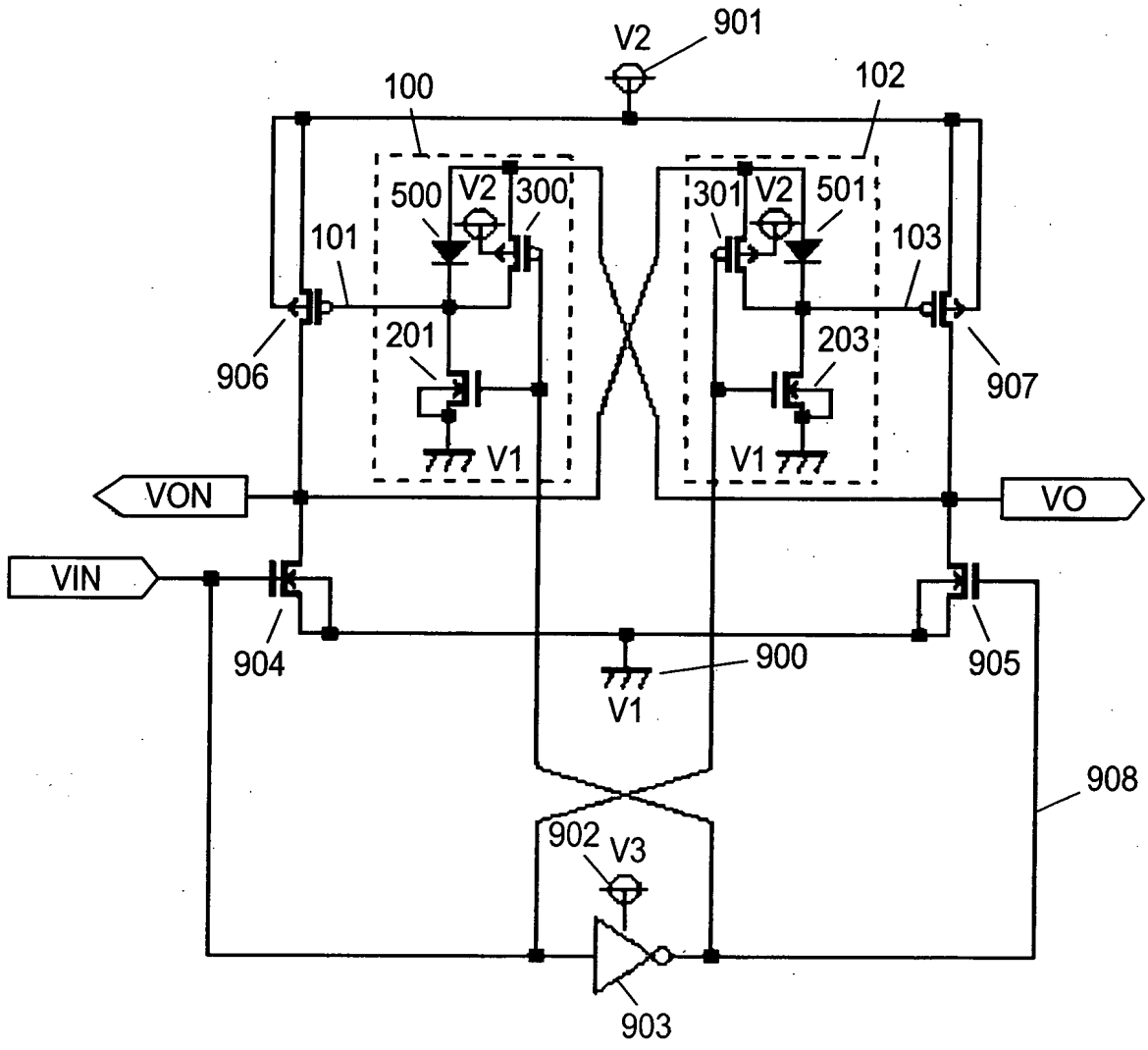
V2
901
100
102
500
V2
300
301
V2
501
101
103
906
201
203
907
V1
V1
VON
VO
VIN
904
905
900
V1
908
902
V3
903

FIG. 6

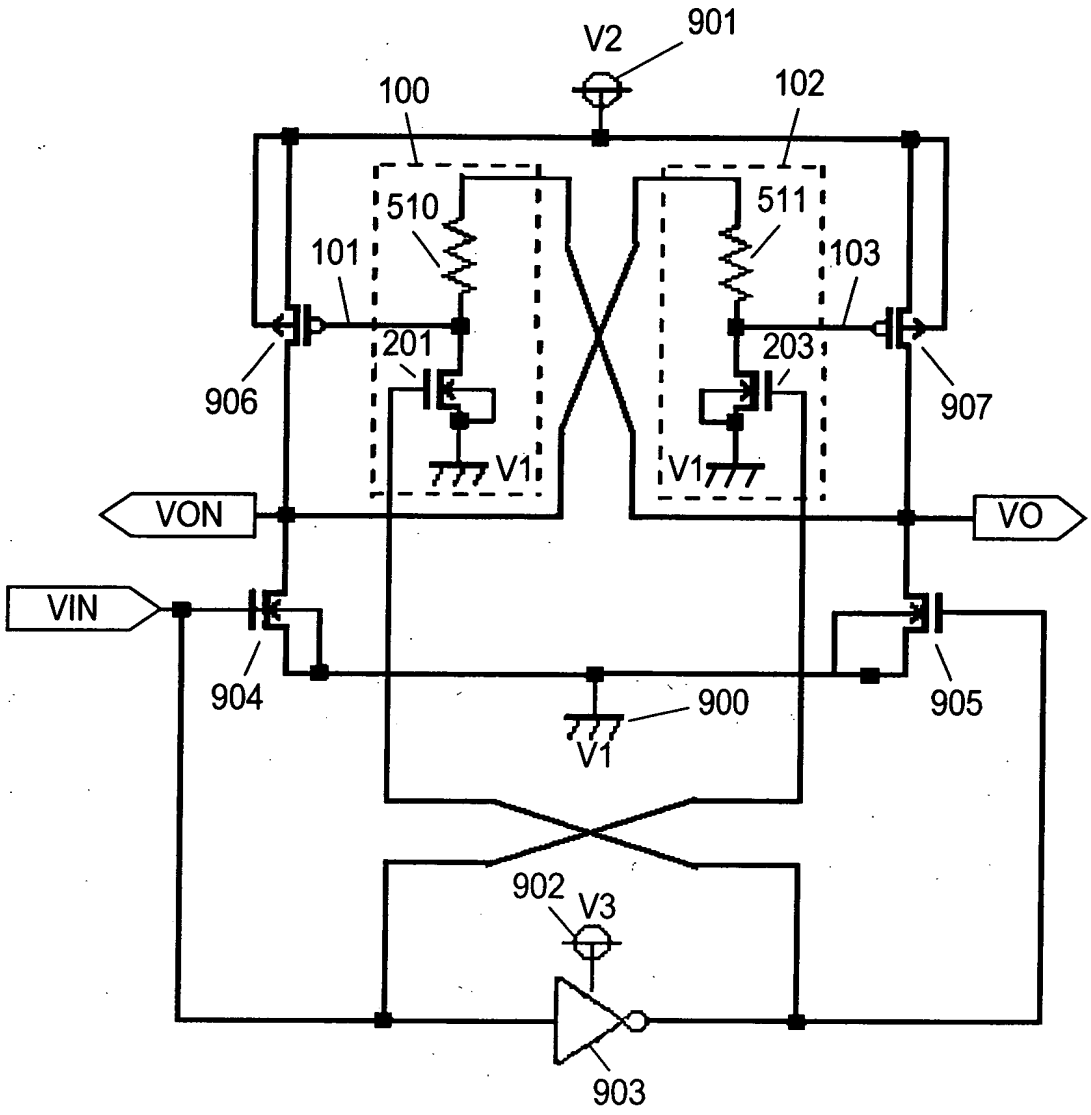
V2
901
100
102
510
511
101
103
201
203
906
907
V1
V1
VON
VO
VIN
904
905
900
V1
902
V3
903

FIG. 7

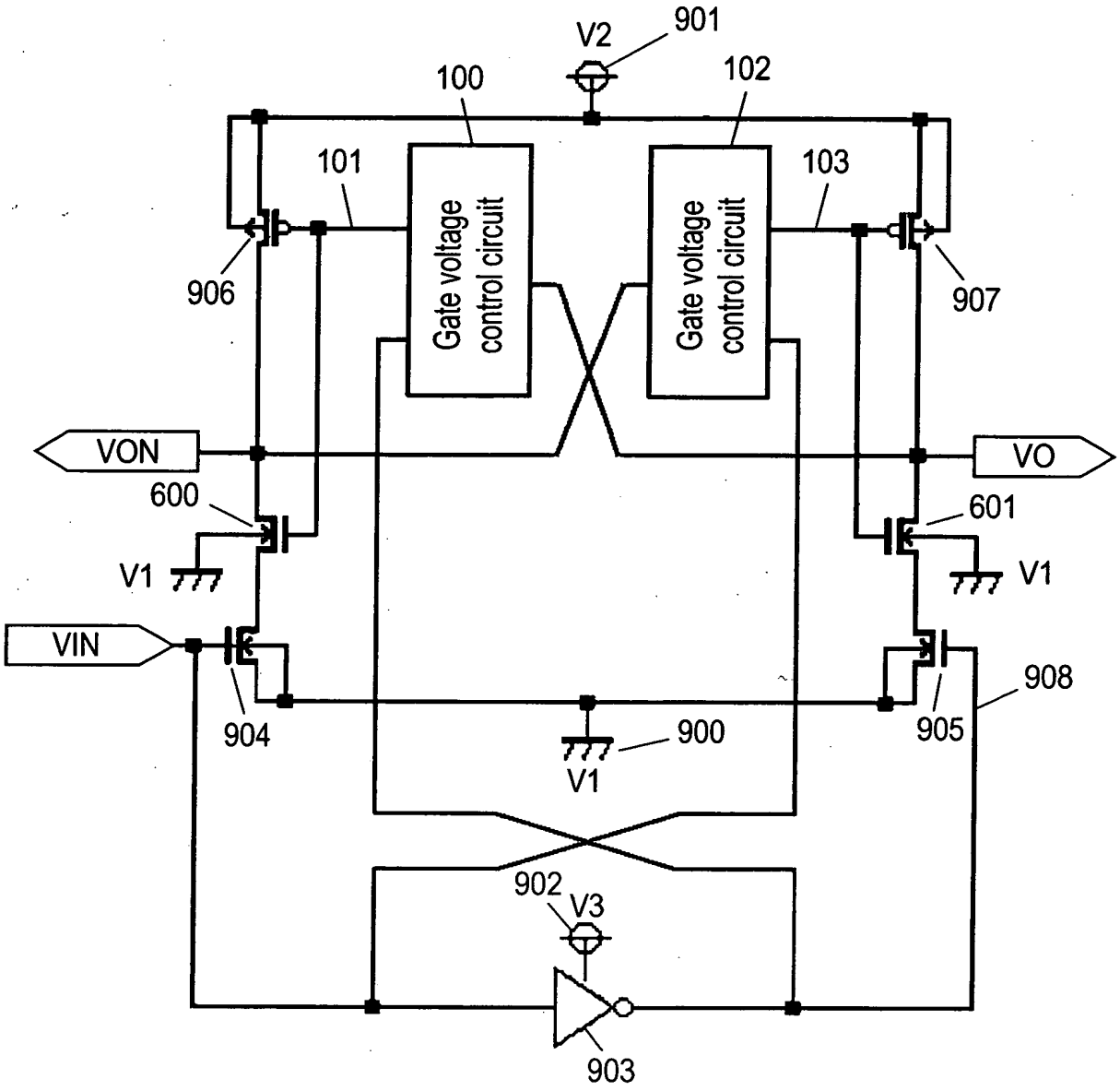
V2
901
100
102
101
103
Gate voltage control circuit
Gate voltage control circuit
906
907
VON
VO
600
601
V1
V1
VIN
904
905
908
900
V1
902
V3
903

FIG. 8A

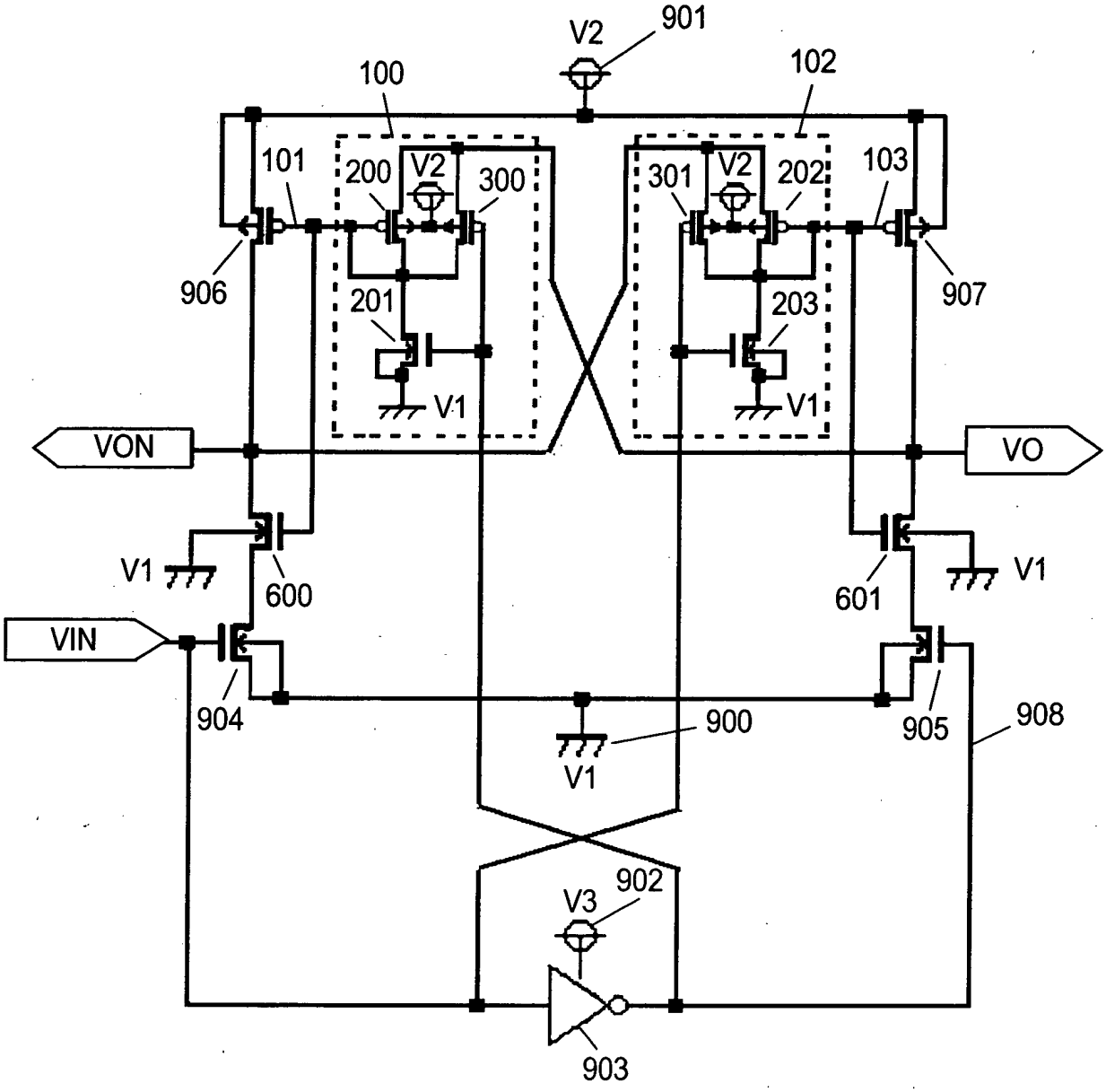
V2
901
100
102
101
200
V2
300
301
V2
202
103
906
907
201
203
V1
V1
VON
VO
V1
600
601
V1
VIN
904
905
908
900
V1
902
V3
903

FIG. 8B

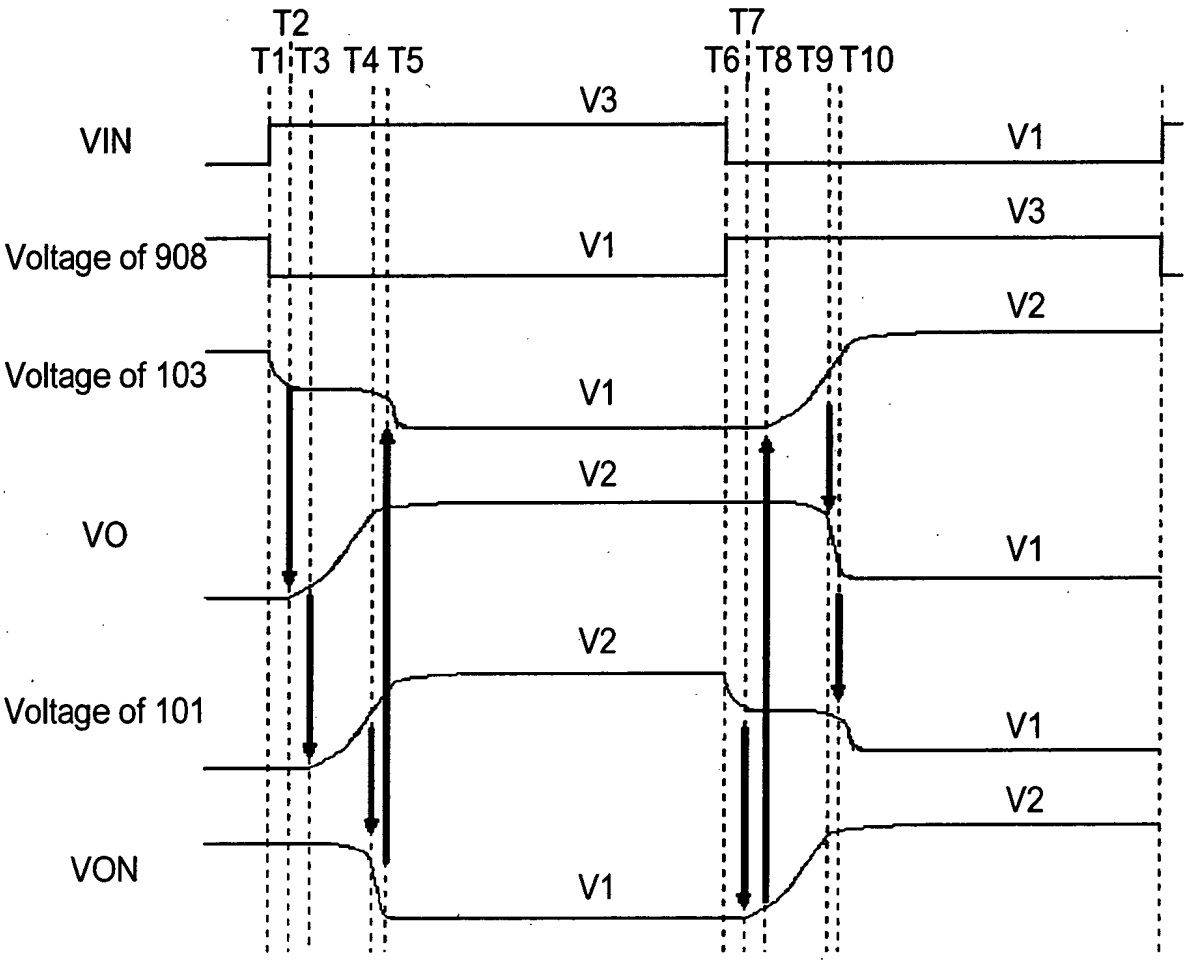
T2
T1 T3 T4 T5
T7
T6 T8 T9 T10
VIN
V3
V1
Voltage of 908
V1
V3
Voltage of 103
V1
V2
VO
V2
V1
Voltage of 101
V2
V1
VON
V1
V2

FIG. 9

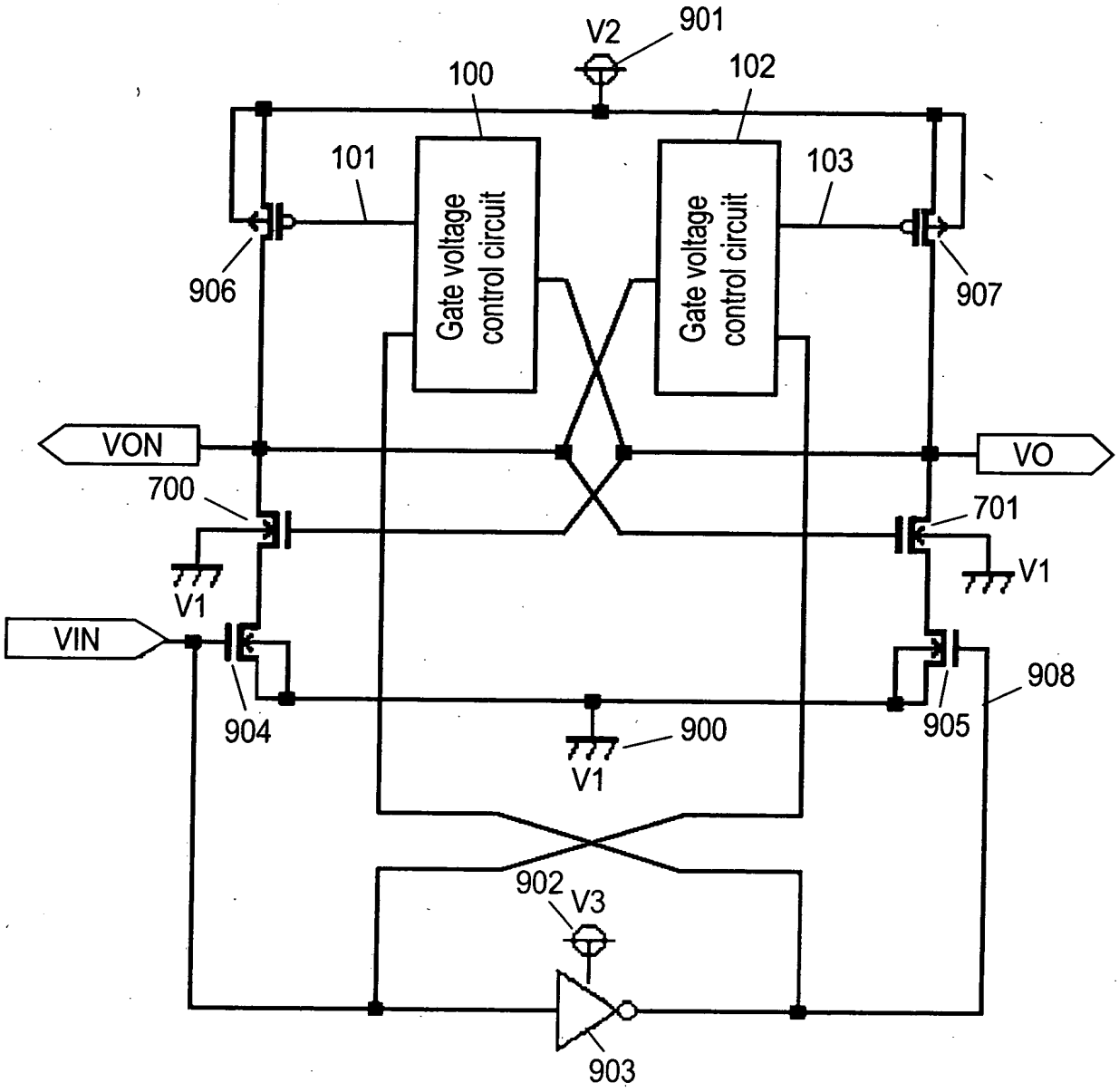
V2
901
100
102
101
103
Gate voltage control circuit
Gate voltage control circuit
906
907
VON
VO
700
701
V1
V1
VIN
904
905
908
900
V1
902
V3
903

FIG. 10A

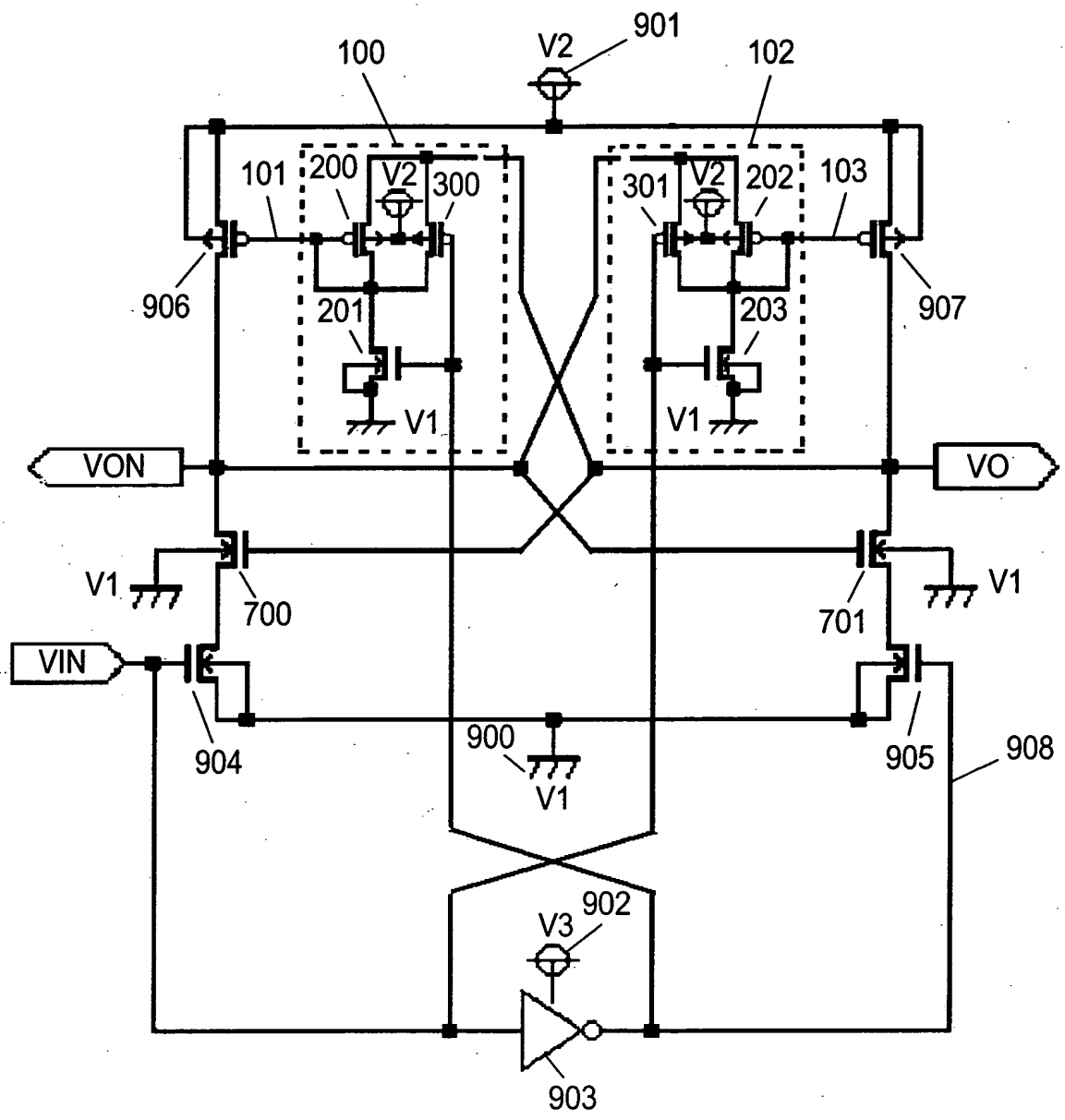
100
V2
901
102
101
200
V2
300
301
V2
202
103
906
201
203
907
V1
V1
VON
VO
V1
700
701
V1
VIN
904
900
V1
905
908
902
V3
903

FIG. 10B

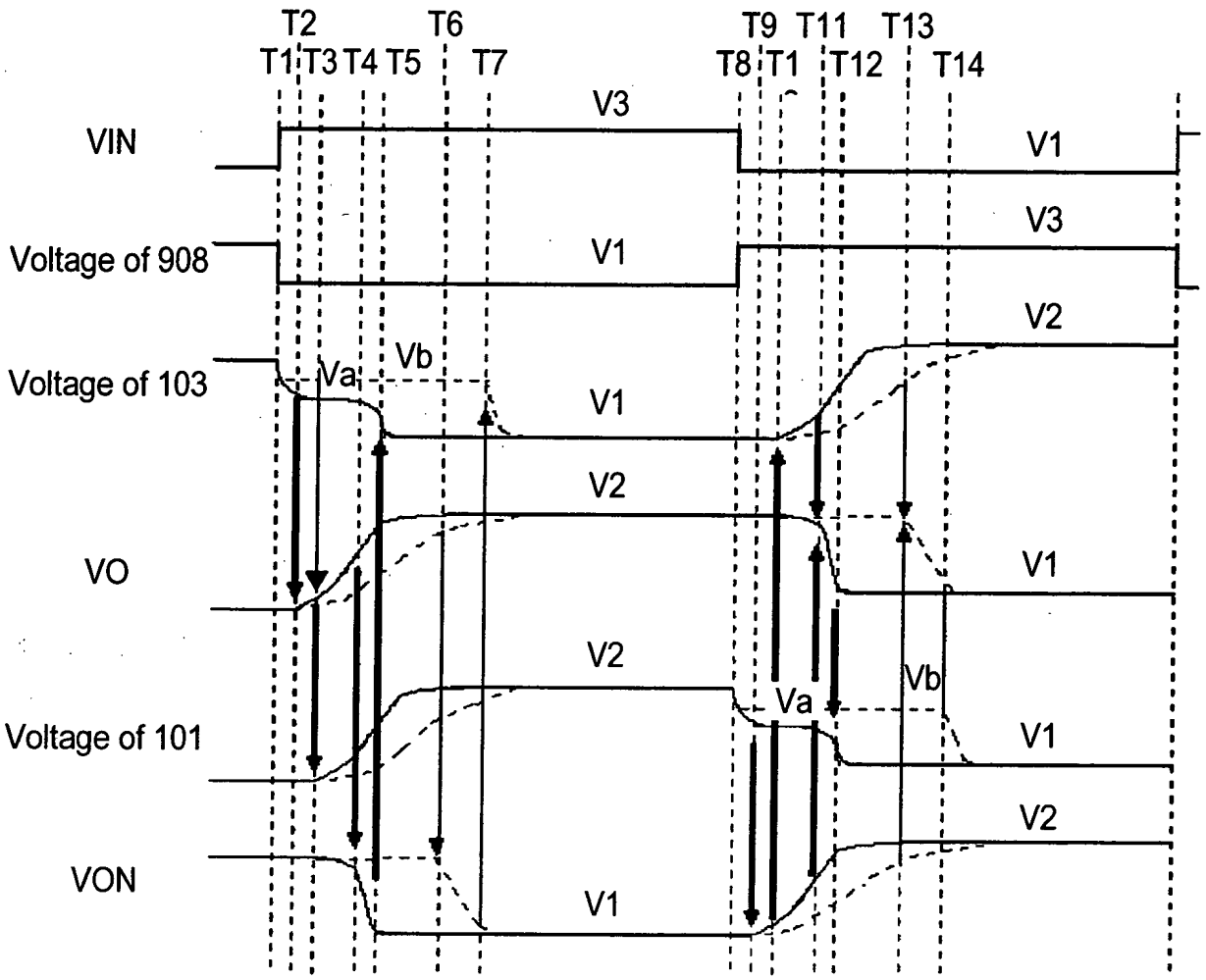
T2
T1 T3 T4 T5
T6
T7
T9 T11 T13
T8 T1 T12 T14
VIN
Voltage of 908
Voltage of 103
VO
Voltage of 101
VON
V3
V1
V2
Va
Vb
In case of V3 being high
In case of V3 being low

FIG. 11

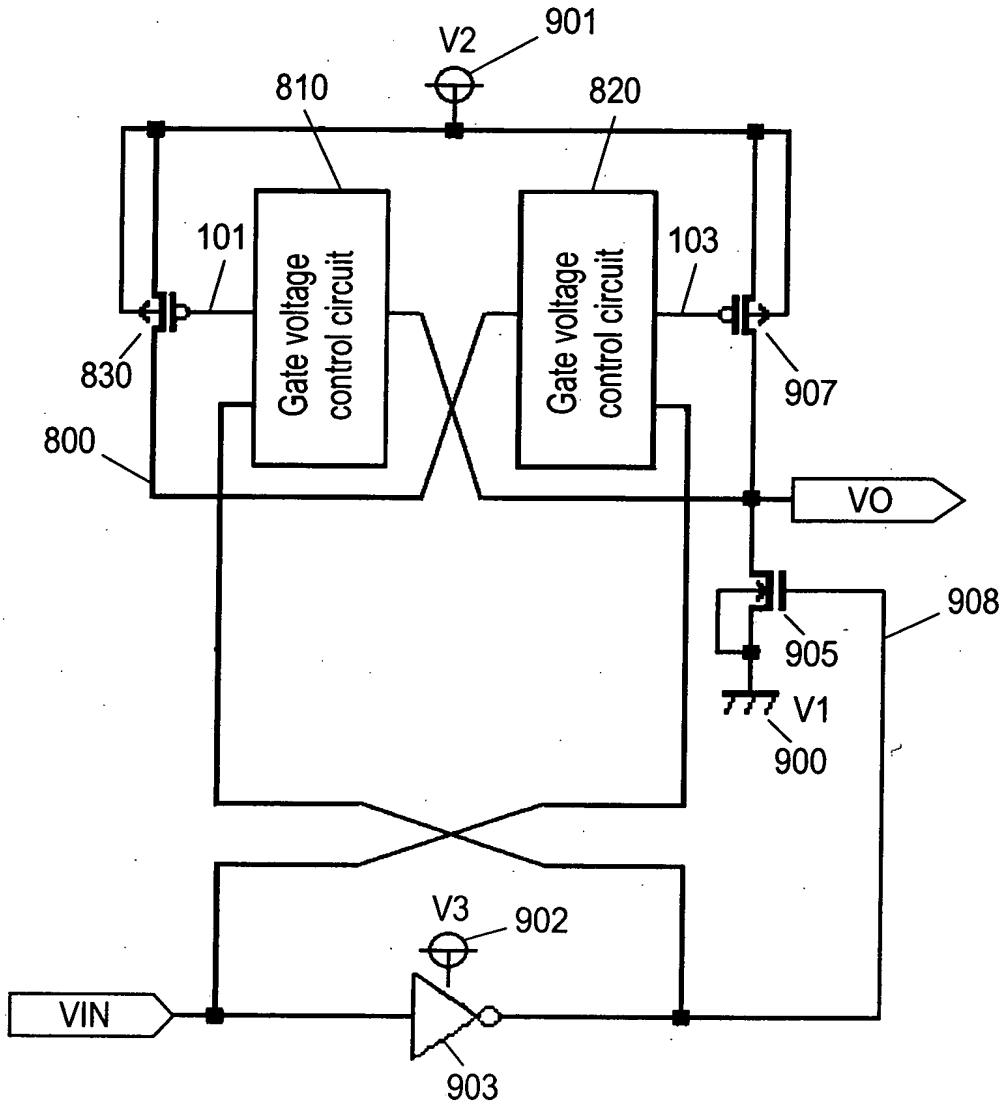
V2
901
810
820
101
Gate voltage control circuit
Gate voltage control circuit
103
830
907
800
VO
908
905
V1
900
V3
902
VIN
903

FIG. 12A

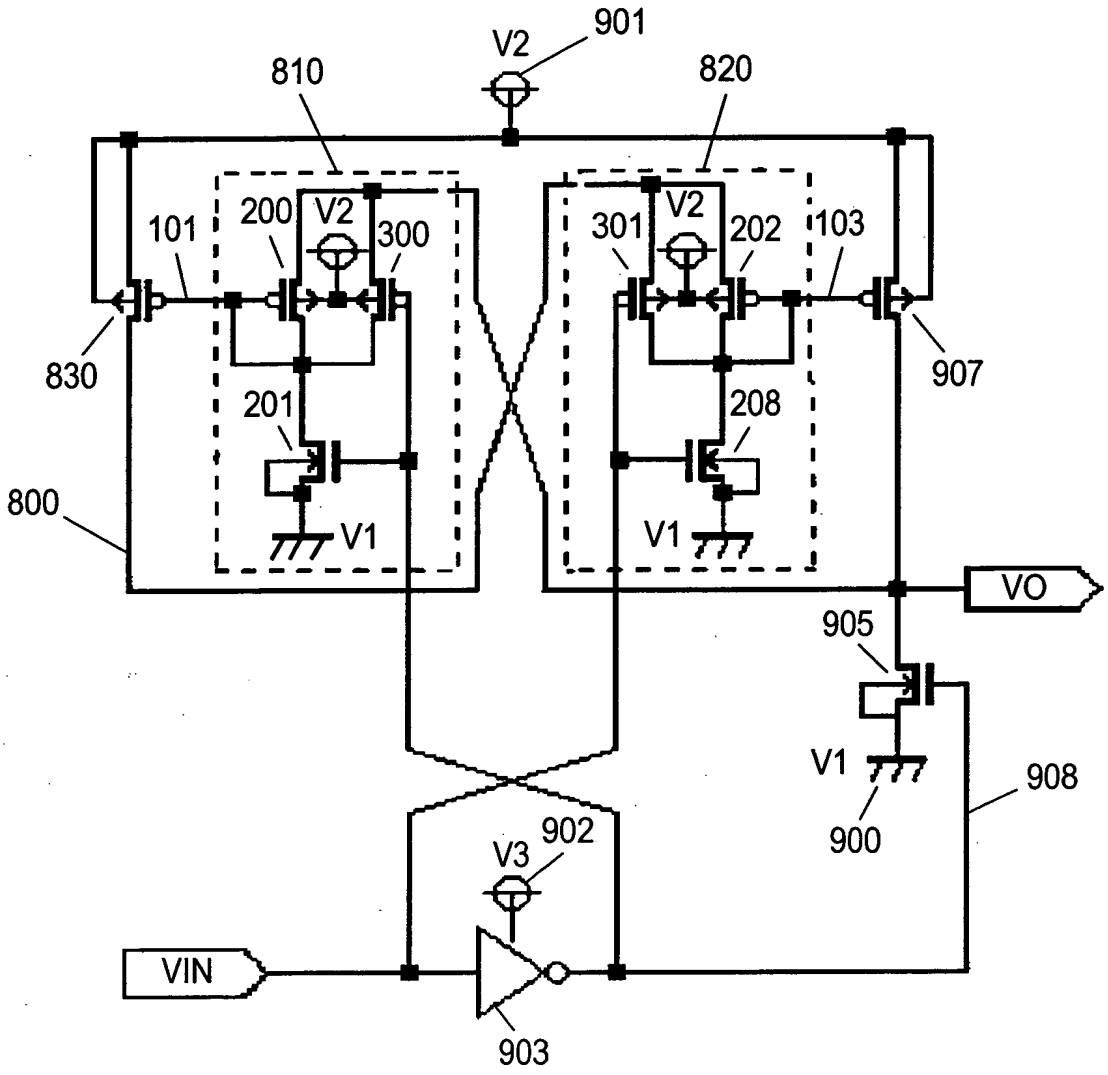
901
V2
810
820
200
V2
300
301
V2
202
101
103
830
907
201
208
800
V1
V1
VO
905
V1
908
900
902
V3
VIN
903

FIG. 12B

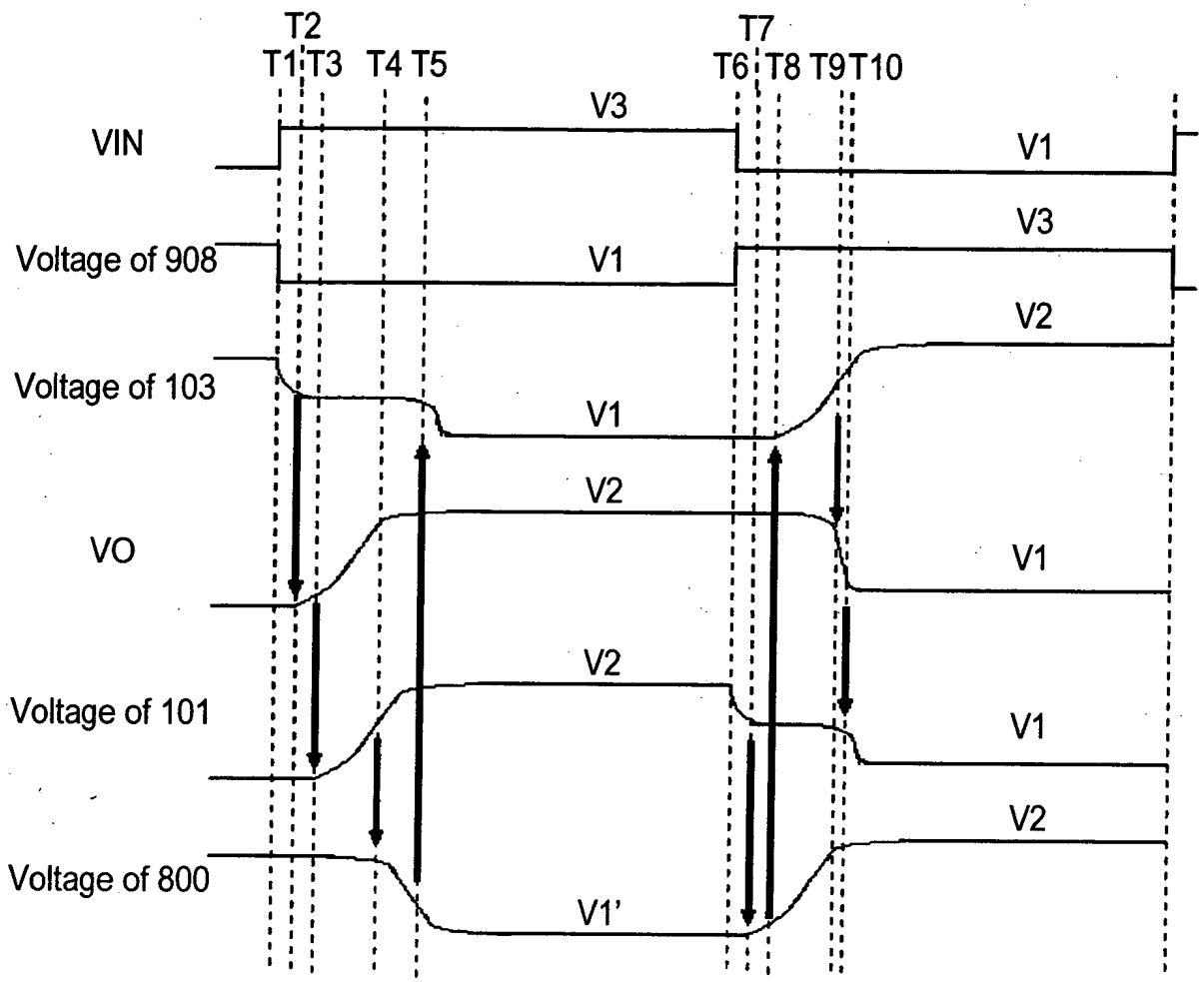
T2
T1 T3 T4 T5
T7
T6 T8 T9 T10
VIN
V3
V1
Voltage of 908
V1
V3
Voltage of 103
V1
V2
VO
V2
V1
Voltage of 101
V2
V1
Voltage of 800
V1'
V2

FIG. 13A

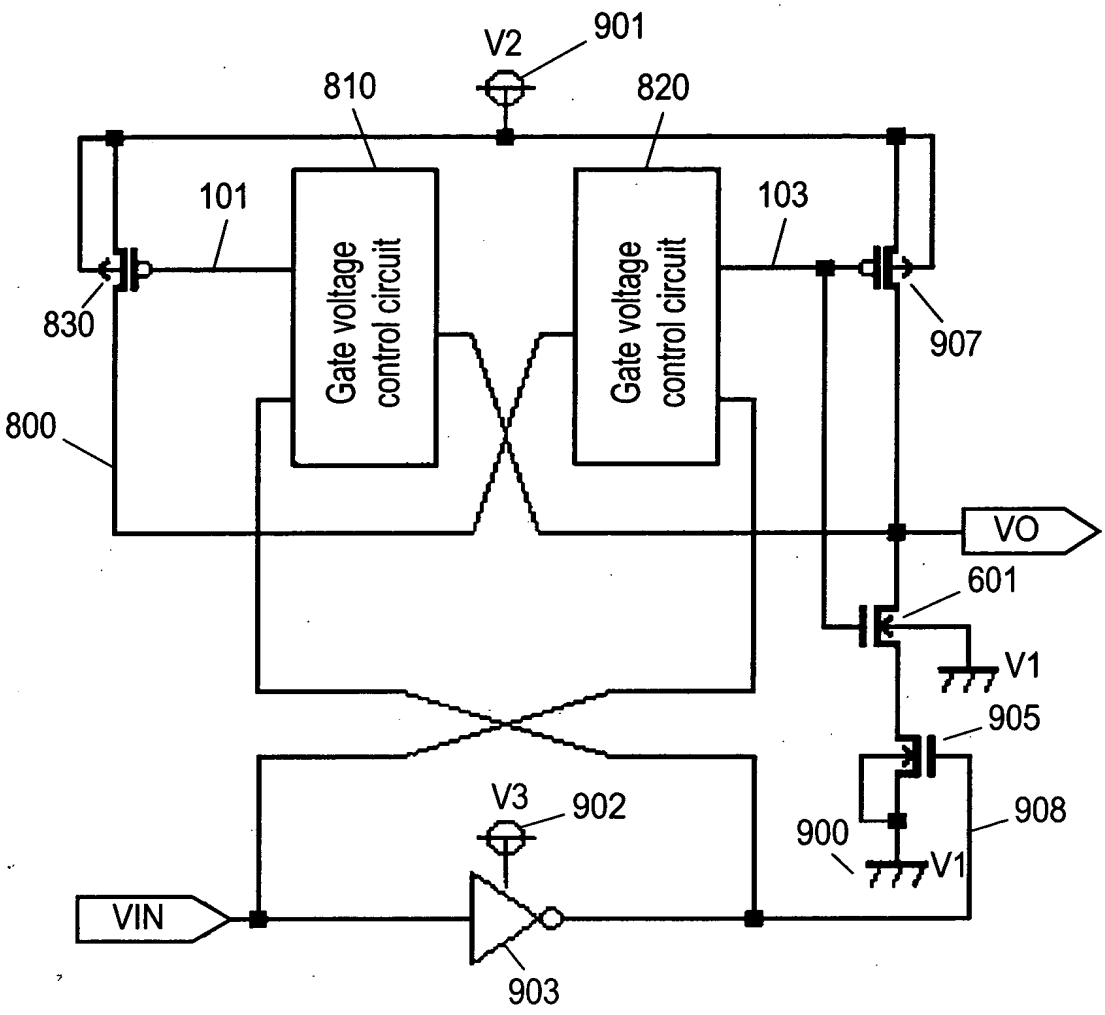
V2
901
810
820
101
103
Gate voltage control circuit
Gate voltage control circuit
830
907
800
VO
601
V1
905
V3
902
908
900
V1
VIN
903

FIG. 13B

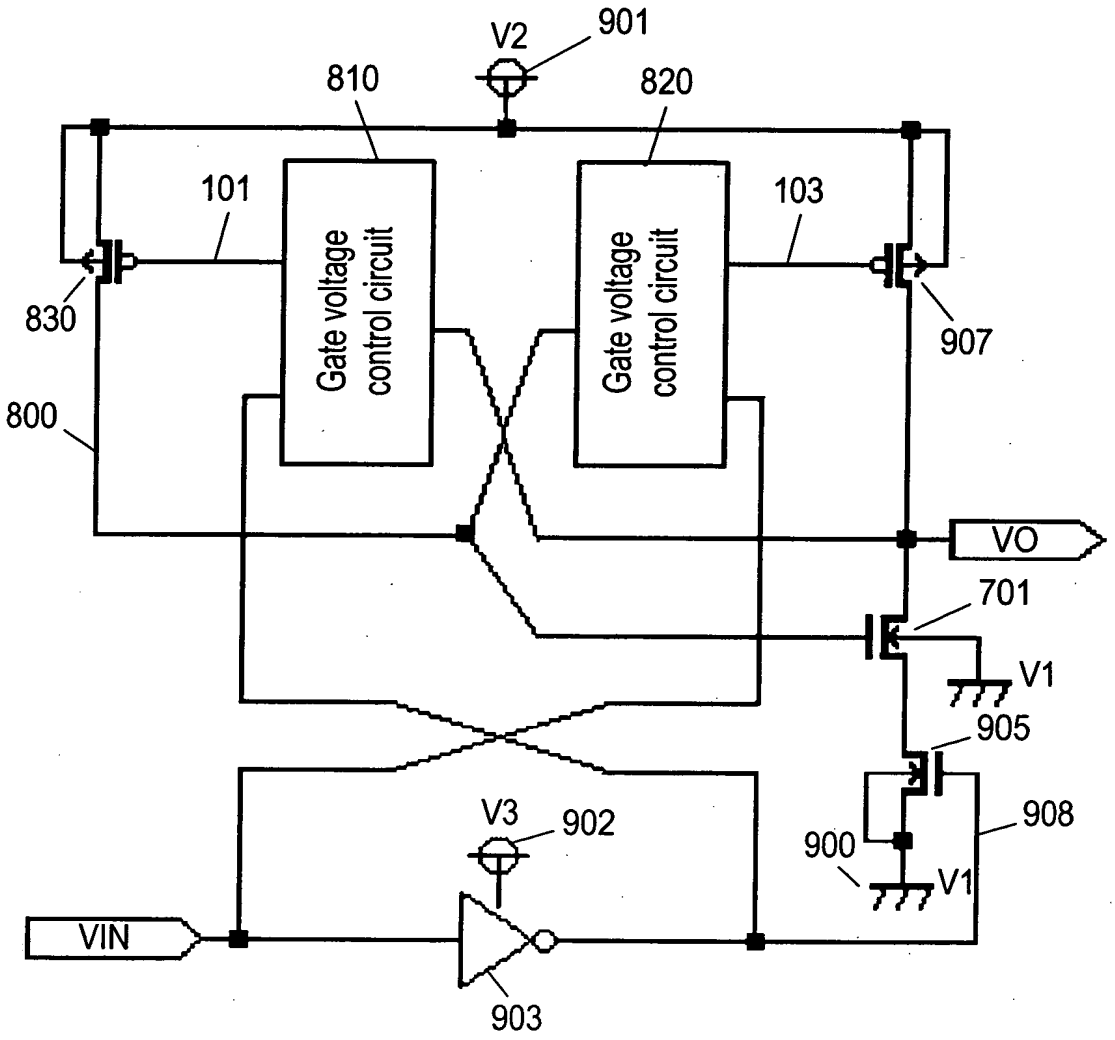
V2
901
810
820
101
103
Gate voltage control circuit
Gate voltage control circuit
830
907
800
VO
701
V1
905
908
900
V1
V3
902
VIN
903

FIG. 14A PRIOR ART

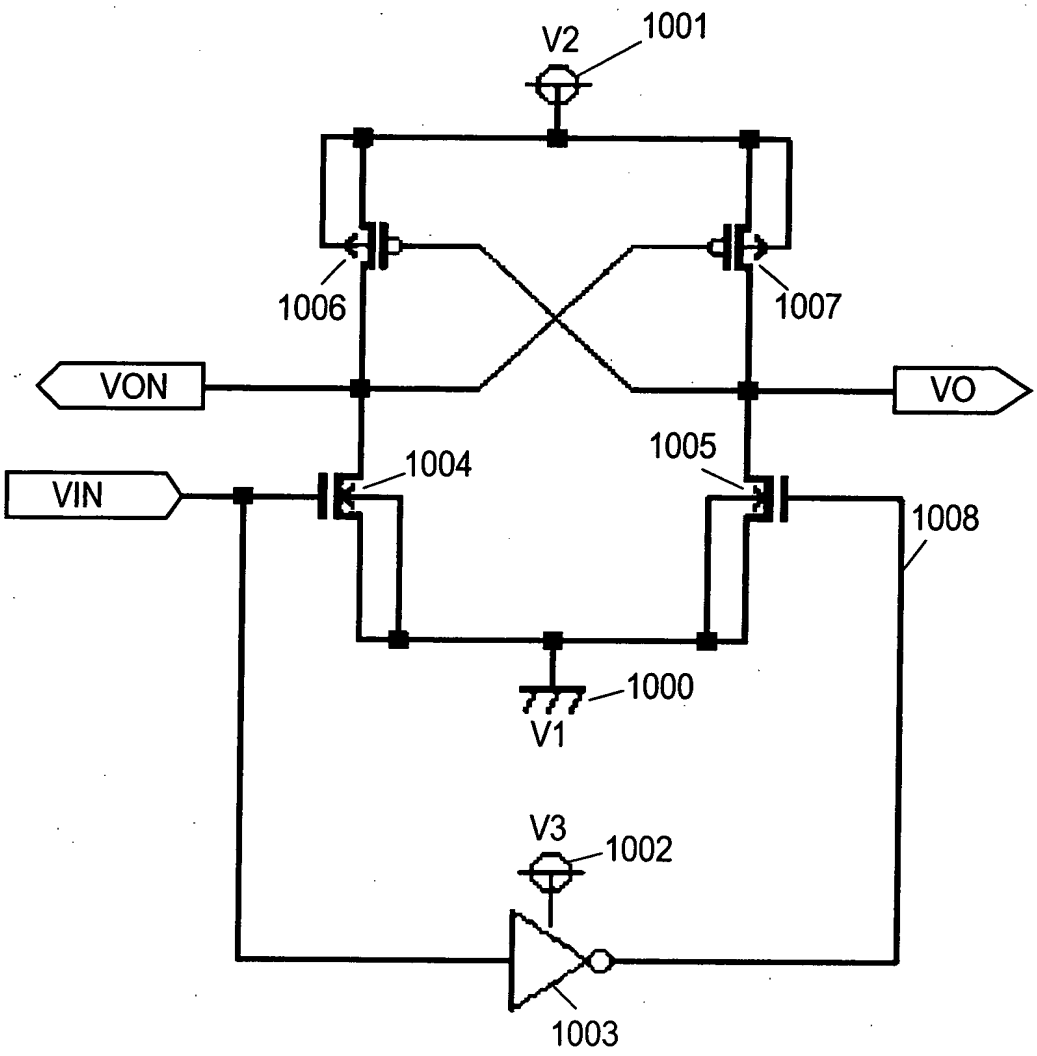
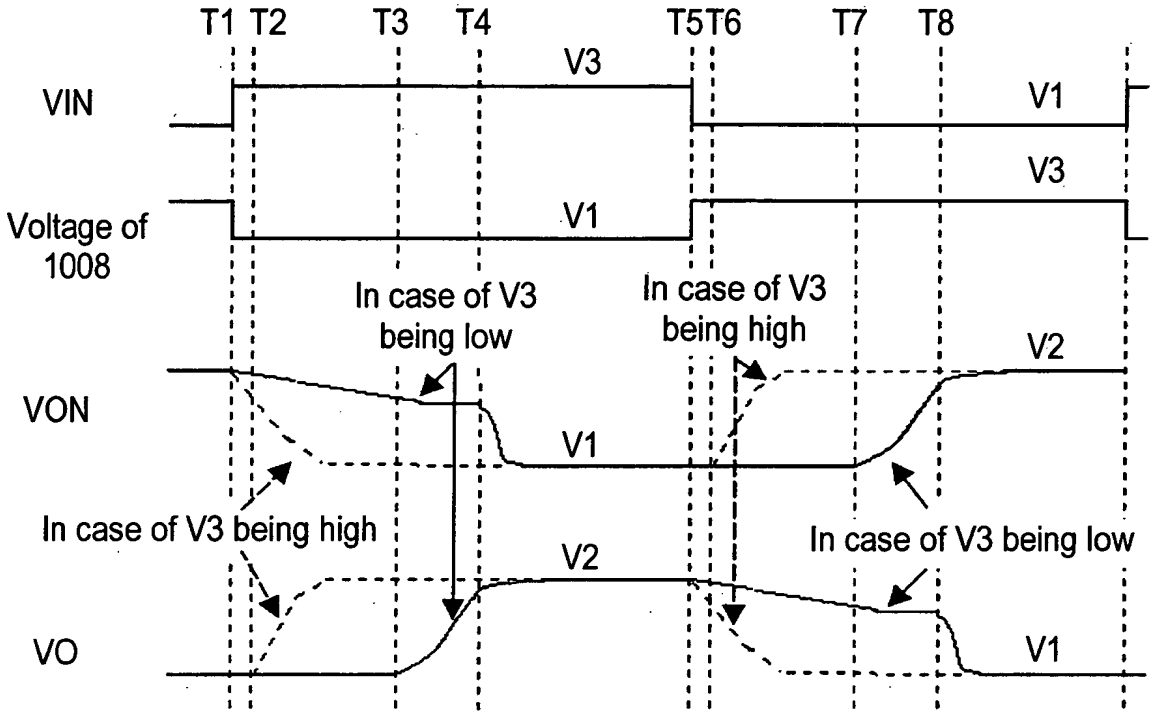
FIG. 14B PRIOR ART